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(54) Title: MATERIALS ENCAPSULATED IN POROUS MATRICES FOR THE REVERSIBLE STORAGE OF HYDROGEN

(57) Abstract: High dispersion of hydrogen storage material comprising a component suitable for hydrogen storage purposes selected from alkali alanate, a mixture of aluminum metal with alkali metal and/or alkali metal hydride and magnesium hydride or mixtures thereof, wherein the hydrogen storage component is encapsulated in a porous matrix.